

## TENTATIVE COURSE SCHEDULE

Course schedule is subject to change. Please check back here for most recent updates.

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### Books:

- RMMR: Regression Methods for Medical Research:  
<http://site.ebrary.com/lib/georgemason/reader.action?docID=10784792&ppg=74>
- ALDA: Applied Longitudinal Data Analysis:  
<http://ebookcentral.proquest.com.mutex.gmu.edu/lib/gmu/reader.action?docID=218068&ppg=120>
- ASA: Applied Survival Analysis:  
<http://proquest.safaribooksonline.com.mutex.gmu.edu/book/statistics/9781118211588/firstchapter>
- CTMD: Clinical Trials with Missing Data:  
<http://ebookcentral.proquest.com.mutex.gmu.edu/lib/gmu/reader.action?docID=1636082&ppg=33>

**Unless otherwise specified, all assignments are due Wednesday evenings at 11:59 PM**

Date	Topic	Assigned readings	Data analysis project due dates	Homework due (Wednesday at 11:59 PM)
8/31	Introduction to SAS			
9/7	Review generalized linear models	RMMR: Chapters 2-5	Preliminary question and dataset	
9/14	Introduction to TIER protocol; Data screening and munging	TIER protocol: <a href="http://www.projecttier.org/tier-protocol/">http://www.projecttier.org/tier-protocol/</a>	Project proposal	HW1
9/21	Analysis of surveys	NHANES overview (all) NHANES Plan and Operations: Pages 1 - 4 NHANES Estimation procedures: Pages 1 - 7	Metadata guide	

9/28	Exploratory data analysis for LDA	RMMR: Chapter 8, pp 175 - 185 ALDA: Chapter 1		HW2
10/5	Introduction to LDA	ALDA: Chapter 2	Data appendix	
10/12	Marginal models for LDA	RMMR: Chapter 8, pp 185 - 193, 202 ALDA: Chapter 4.1 - 4.5		HW3
10/19	Missing data	CTMD: Chapter 1	Data analysis plan	
10/26	Introduction to survival data	RMMR: Chapter 6, pp 120 - 127 ASA: Chapter 1-2		HW4
11/2	Introduction to survival data  <i>Tentative guest lecture: Dr. Therri Usher, FDA</i>	ASA: Chapter 3	Univariable analysis	
11/9	Regression models for survival data		Multivariable analysis	
11/16	Sample size calculations		Final Tables and Figures	
11/23	<b>No class, Thanksgiving break</b>			
11/30	TBD			HW5
12/7	Project presentations		Project presentations	<i>Optional: Draft final project</i>  Project presentations

12/14	Final project due	Submit final project by 11:59 PM	<b>Final project</b>	<b>FINAL PROJECT DUE</b>
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